APTD-1301

PB 211 801

AIR POLLUTION REPORT

FEDERAL FACILITIES

METROPOLITAN ATLANTA INTRASTATE

AIR QUALITY CONTROL REGION

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AIR QUALITY CONTROL REGION

WAYNE A BLACKARD

FEDERAL SOURCES BRANCH
DIVISION OF COMPLIANCE
OFFICE OF AIR PROGRAMS
ROCKVILLE, MARYLAND

MAY 1971

I

ADDENDUM TO THE PUBLICATION

"AIR POLLUTION REPORT ON FEDERAL FACILITIES IN THE METROPOLITAN ATLANTA INTRASTATE AIR QUALITY CONTROL REGION", May, 1971.

This inventory was prepared consistent with the report entitled "Consultation on the Metropolitan Atlanta Intrastate Air Quality Control Region", January 1970, and the geographical designation of April 29, 1970. On March 31, 1971, in line with the concept of including the entire United States in these geographical units called Air Quality Control Regions, this Region was redesignated and its boundaries expanded by the Environmental Protection Agency. Hence, the data presented herein do not reflect Federal facility emissions data for the counties of: Butts, Carroll, Corveta, Fayette, Heard, Lamar, Meriwether, Pike, Rockdale, Spalding, Troup, Upson in Georgia, which have been added to the region.

Federal Sources Branch
Division of Compliance
Environmental Protection Agency

November 2, 1971

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NARRATIVE

This report presents the current status of the Federally owned facilities within the Metropolitan Atlanta Air Quality Control Region with regard to the implementation of the objectives prescribed by the Clean Air Act, as amended. The data in this report are the most recently available and reflect the current fuel usage, refuse disposal practices, air pollution emissions and proposed abatement measures for the listed installations.

I. BOUNDARIES OF THE AIR QUALITY CONTROL REGION

On April 29, 1969, the Metropolitan Atlanta Intrastate Air Quality Control Region was designated pursuant to section 107(a) of the Clean Air Act, as amended. The seven-county intrastate Region is located in central Georgia and consists of Clayton, Cobb, De Kalb, Douglas, Fulton, Gwinnett, and Henry Counties. A map of this Region is presented in Figure 1.

II. NUMBER OF FEDERAL FACILITIES

There are 81 Federal installations within the Region and of these only 25 are involved in burning either fossil fuels or refuse. Table I is a listing of these facilities and the quantities of fuel and refuse for the respective Counties within the Region.

III. FEDERAL CONTRIBUTIONS TO AIR POLLUTION

The Federal facilities within the Metropolitan Atlanta Air Quality Control Region emit annually a total of 1700 tons of hydrocarbons (HC), 540 tons of nitrogen oxides (NO_x), 180 tons of sulfur oxides (SO_x), 170 tons of particulate (PART), and 100 tons of carbon monoxide (CO). These emissions, as summarized in Table III, contribute slightly less than 1% of the total particulates and sulfur oxides from all stationary sources within the area.

Emissions from transportation sources were not included in this report, but will be covered in a subsequent report of air pollution emissions from mobile sources. Identifiable annual aircraft emissions are estimated to total 11,000 tons of carbon monoxide, 1200 tons of hydrocarbons, 700 tons of nitrogen oxides and 400 tons of particulates.

Table IV lists the Federal sources which emit annually more than 100 tons per year (Point Sources) of any one pollutant. There are two point sources in this Region - Atlanta Army Depot in Forest Park and Air Force Plant 06 in Marietta.

One installation in this Region, as listed in Table V, has coal-fired boilers in violation of the particulate emissions limitations as per Federal regulation: Title 42, Part 76.4, Sections (7) and (8).

IV. REMEDIAL ABATEMENT MEASURES PROPOSED

Six Federal facilities, listed in Table VI, have reported air pollution problems and/or proposed remedial measures in their 1967-1972 five year abatement plans. These actions and the expected reductions in the air pollution emissions produced by these facilities when all of the abatement plans have been put into effect are presented by Table VII.

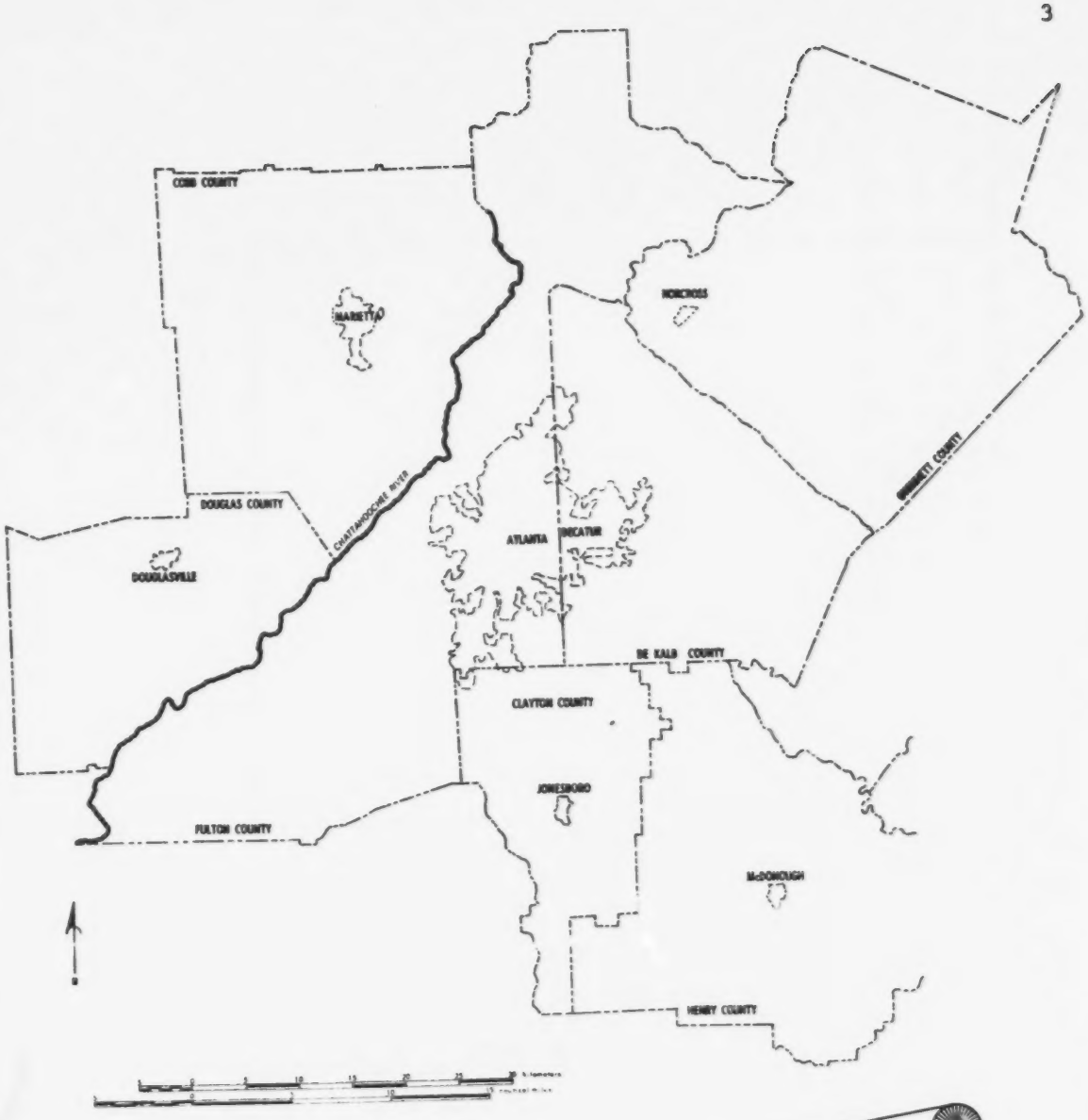

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FIGURE 2

METROPOLITAN ATLANTA INTRASTATE

AIR QUALITY CONTROL REGION

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GEORGIA CLAYTON COLLEGE PARK							
FAA-VASI 13781	0	0	0	0	0	0	LANDING LIGHTS
FAA-ATCT 13782	0	0	0	0	0	0	AIR TRAFFIC CONTROL TOWR
FAA-ASR 13784	0	0	0	0	0	0	AIRPORT RADAR
FAA-ALSF 13785	0	0	0	0	0	0	APPROACH LIGHT SYSTEM
FAA-OM 13794	0	0	0	0	0	0	OUTER MARKER
FAA-MM 13795	0	0	0	0	0	0	MIDDLE MARKER

TABLE I

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LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-MM 13799	0	0	0	0	0	0	MIDDLE MARKER
FAA-RTR 13963	0	0	0	0	0	0	TRANSMITTER/ RECEIVER
FAA-ALSF 13965	0	0	0	0	0	0	APPROACH LIGHT SYSTEM
FAA-LOC 13966	0	0	0	0	0	0	HORIZONTAL NAV AID
FAA-GS 13967	0	0	0	0	0	0	VERTICAL NAV AID
FAA-GS 13968	0	0	0	0	0	0	VERTICAL NAV AID
FAA-GS 13969	0	0	0	0	0	0	VERTICAL NAV AID

TABLE I

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LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-LOC 13972	0	0	0	0	0	0	HORIZONTAL NAV AID
FAA-LOC 13973	0	0	0	0	0	0	HORIZONTAL NAV AID
GEORGIA CLAYTON CONLEY							
FAA-H 13791	0	0	0	0	0	0	HOMING BEACON
GEORGIA CLAYTON JONESBORO							
FAA-OM 13796	0	0	0	0	0	0	OUTER MARKER
GEORGIA CLAYTON NO CITY ID							
ATLANTA ARMY DEPOT	0	0	211,277	0	84,246	3,208	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GEORGIA COBB ACUORTH							
PO&FEDERAL BLDG	0	0	225	0	0	0	REFUSE COLLECTED
GEORGIA COBB DOBBINS AFB							
NAVAL AIR STATION	0	0	0	0	0	0	INCLUDED IN DOBBINS AFB
DOBBINS AFB	0	0	49,216	178,800	150,900	0	
GEORGIA COBB MARIETTA							
AIR FORCE PLANT 06	0	0	1,473,778	3,260,998	0	0	
DOBBINS AFB TEST LAB 2	0	0	5,600	0	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
DOBBINS MM	0	0	0	0	0	0	NAVIGATIONAL AID
DOBBINS OM	0	0	0	0	0	0	NAVIGATIONAL AID
MARIETTA NAT CEMETERY	0	0	8	0	0	0	REFUSE COLLECTED
KENNESAW MT NBT	0	0	2,183	0	0	0	
FAA-RCAG 13702	0	0	0	0	0	0	VHF RADIO EQUIPMENT
FAA-ARBCN 13713	0	0	0	0	0	0	ROTATING LIGHTS
GEORGIA COBB POWDER SPR							
MONITORING STATION FCC	0	10	460	1,700	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GEORGIA COBB SMYRNA							
FAA-ARSR 13720	0	0	0	0	0	0	LONGRANGE RADAR
GEORGIA COBB NO CITY ID							
FT MCPHERSON REC. AREA	0	0	0	0	0	0	REFUSE TO LANDFILL
FAA-FM 13705	0	0	0	0	0	0	RADIO MARKER BEACON
ALLATOONA RESERVOIR	80	0	0	0	0	0	NO HEATING
GEORGIA DEKALB ATLANTA							
VA HOSPITAL 4158 PEACH T	0	0	0	0	0	0	FOR GSA DISPOSAL

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
VA HOSPITAL CLAIRMONT RD	0	2560	79,000	0	83,753	0	
COMMUN DIS CTR HDQ	0	2050	312	0	299,473	0	
GEORGIA DEKALB CHAMBLEE							
USARC CHAMBLEE	0	0	2,162	0	0	0	REFUSE COLLECTED
LAWSON GEN. HOSPITAL	0	0	0	0	0	0	NOT IN OPERATION
COMMUNICABLE DISEASE CTR	0	0	16	38,625	0	0	REFUSE TO CITY INCIN
GEORGIA DEKALB DECATUR							
FEDERAL BLDG	0	0	50	0	0	0	REFUSE COLLECTED

TABLE I

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LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-ATCT 13993	0	0	0	0	0	0	AIR TRAFFIC CONTROL TOWR
GEORGIA DOUGLAS NO CITY ID							
FAA-RCAG 13700	0	0	0	0	0	0	VHF RADIO EQUIPMENT
FAA-RCAG 13701	0	0	0	0	0	0	VHF RADIO EQUIPMENT
MICROWAVE RELAY STAT	0	0	0	0	0	0	NO PROBLEMS
GEORGIA FULTON ATLANTA							
NAVY RTC	0	0	0	0	0	0	HEAT FURNISHED
USARC ATLANTA	0	0	13,494	0	0	0	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GENERAL IND US PENITENT	0	0	0	0	0	0	SEE US PENITENTIARY
US PENITENTIARY	0	12,000	580,000	0	0	0	
FED OFF BLDG 275 PEACHTRE	0	0	2,180	0	0	0	
POST OFFICE COURTHOUSE	0	0	0	0	0	0	PURCHASED HEAT
FEDERAL ANNEX	0	0	0	0	0	0	PURCHASED HEAT
FAA-RTR 13704	0	0	0	0	0	0	TRANSMITTER/ RECEIVER
FAA-TVOR 13712	0	0	0	0	0	0	OMNI EQUIP

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-SB 13718	0	0	0	0	0	0	STORAGE BUILDING
FAA-FSS 13970	0	0	0	0	0	0	FLIGHT INFO STATION
FAA-H 13971	0	0	0	0	0	0	HOMING BEACON
FAA-UVDF 13995	0	0	0	0	0	0	DIRECTIONAL FINDER
FAA-ATCT 13996	0	0	0	0	0	0	AIR TRAFFIC CONTROL TOWR
FAA-UVDF 13997	0	0	0	0	0	0	DIRECTIONAL FINDER
GEORGIA FULTON COLLEGE PARK							
POST OFFICE 3799 MAIN ST	0	0	468	0	0	0	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-RMLR 13789	0	0	0	0	0	0	RADIO MICRO-WAVE LINK
FAA-MM 13797	0	0	0	0	0	0	MIDDLE MARKER
FAA-OM 13798	0	0	0	0	0	0	OUTER MARKER
GEORGIA FULTON EAST POINT							
USARC EAST POINT	0	0	2,414	0	0	0	REFUSE COLLECTED
FEDERAL RECORDS CTR	0	0	828	0	0	0	REFUSE COLLECTED
GEORGIA FULTON FT MCPHERSON							
FORT MCPHERSON	0	55	233,735	115,939	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GEORGIA FULTON HAPEVILLE							
POST OFFICE 650 CENTRAL	0	0	520	0	0	0	REFUSE COLLECTED
FAA-RTR 13964	0	0	0	0	0	0	TRANSMITTER/ RECEIVER
FAA-REIL 13779	0	0	0	0	0	0	LANDING LIGHTS
FAA-VASI 13780	0	0	0	0	0	0	LANDING LIGHTS
FAA-ALSF 13786	0	0	0	0	0	0	APPROACH LIGHT SYSTEM
GEORGIA FULTON NO CITY ID							
BUFORD DAM	160	0	0	0	0	0	NO HEATING

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GEORGIA GWINNETT BUFORD							
POST OFFICE 95 SCOTT ST	0	0	5	0	0	0	REFUSE COLLECTED
GEORGIA GWINNETT DULUTH							
FAA-VTAC 13714	0	0	0	0	0	0	RANGE/DIRECT AID
GEORGIA GWINNETT LAWRENCEVILL							
ANIMAL HLD BREEDING AR	0	0	0	0	0	0	SEE HEW
POST OFFICE 245 CROGAN	0	25	329	0	0	0	REFUSE COLLECTED
ANIMAL HLD& BREEDING	0	3,460	78	37,278	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
GEORGIA HENRY HAMPTON							
FAA-RMLT 13728	0	0	0	0	0	0	NAVIGATIONAL AID
GEORGIA HENRY MCDONOUGH							
POST OFFICE 32 COVINGTON	0	0	0	0	0	0	ELECTRIC HT
GEORGIA HENRY NO CITY ID							
FAA-VTAC 13793	0	0	0	0	0	0	RANGE/DIRECT AID

TABLE II

ANNUAL FUEL USE BY FEDERAL FACILITIES

	COAL (TONS)	RESID OIL (GAL)	DIST OIL (GAL)	GAS (MCF)
GEORGIA				
CLAYTON	3,208	84,246	0	211,277
COBB	0	150,900	3,641,498	1,531,470
DEKALB	0	383,226	38,625	81,540
DOUGLAS	0	0	0	0
FULTON	0	0	115,939	833,639
GWINNETT	0	0	37,278	412
HENRY	0	0	0	0
TOTAL	3,208	618,372	3,633,340	2,658,338

TABLE III

FEDERAL CONTRIBUTION TO AIR POLLUTION
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
GEORGIA					
CLAYTON	47	43	43	120	11
COBB	57	380	10	31	1700
DEKALB	70	25	8	7	1
DOUGLAS	0	0	0	0	0
FULTON	4	91	36	14	1
GWINNETT	3	2	10	3	0
HENRY	0	0	0	0	0
STATE TOTAL	180	540	100	170	1700

NOTE: (1) EMISSIONS REPORTED IN SIGNIFICANT FIGURES
(2) EMISSIONS LESS THAN 0.5 TONS/YR REPORTED AS ZERO

TABLE IV

FEDERAL POINT SOURCES
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
GEORGIA					
CLAYTON					
ATLANTA ARMY DEPOT	47	43	43	120	11
COBB					
AIR FORCE PLANT 06	32	370	1	28	1700

NOTE: (1) A POINT SOURCE IS AN INSTALLATION WHICH EMITS OVER 100 TONS/YEAR OF ONE OR MORE OF THE FIVE POLLUTANTS
(2) EMISSIONS REPORTED IN SIGNIFICANT FIGURES

TABLE V

COAL-FIRED BOILERS IN VIOLATION OF 42 CFR 76.4

INSTALLATION NAME	BOILER SIZE (MMBTU/HR)	NUMBER OF BOILERS	COAL USED (TONS/YEAR)	PART. (LBS/MMBTU) EMITTED	PART. (LBS/MMBTU) ALLOWED	PART. EMITTED TONS/YR/BOILER
ATLANTA ARMY DEPOT	11.0	2	794	3.03	0.59	34.6
ATLANTA ARMY DEPOT	5.0	10	147	2.32	0.60	4.9

TABLE VI

ABATEMENT PROGRAM FOR FEDERAL PROBLEM AREAS

IN THE

METROPOLITAN ATLANTA INTRASTATE

AIR QUALITY CONTROL REGION

A. Statement of problem
B. Abatement measures proposed in five year plan*
C. Status of proposed abatement measures

GEORGIA

CLAYTON

FOREST PARK

Atlanta Army Depot

A. Central coal-fired heating plant
B. Gas conversion
C. Construction underway

FULTON

ATLANTA

U. S. Penitentiary

(1) A. Incinerator emissions
B. Construct a new incinerator
C. Project completed 1969

(2) A. Incineration and refuse landfill
B. Consider other alternatives -
Adequate land no longer available for landfilling
C. Currently negotiating for contract collection

FORT MC PHERSON

Fort McPherson

A. Open burning pit
B. Eliminate open burning
C. Open burning eliminated 1967 - refuse collected

COBB

DOBBINS AIR FORCE BASE

Dobbins Air Force Base

A. Burning high sulfur fuel oil
B. Convert to a low sulfur oil
C. Conversion inacted for eight small units in 1969

MARIETTA

Air Force Plant 06

A. Paint spray booths, chemical milling and fuel cell sealant curing
B. No additional control proposed
C. Currently the exhaust gases are treated by water walls or fume scrubbers

GWINNETT

LAWRENCEVILLE

Communicable Disease Center Facility

A. Incinerator emissions
B. Proposed installation of control equipment
C. Project under design

*1967-72 plan per Executive Order 11282, superseded by Executive Order 11507

TABLE VII

POLLUTANT REDUCTION GOALS
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
GEORGIA					
CLAYTON	55	13	43	119	9
COBB	--	--	--	---	-
DEKALB	--	--	--	---	-
DOUGLAS	--	--	--	---	-
FULTON	2	2	34	6	1
GWINNETT	NEG	NEG	NEG	1	NEG
HENRY	--	--	--	---	-
STATE TOTAL	57	15	77	126	10

NOTE: THESE REDUCTIONS WILL RESULT FROM ABATEMENT MEASURES PROPOSED, BUT NOT YET ACCOMPLISHED, IN THE FIVE-YEAR PLAN.

REFERENCES AND NOTES

1. Duprey, R. L., Compilation of Air Pollutant Emission Factors, Public Health Service Publication No. 999-AP-42, 1968.

   All calculated emissions are based on these factors.

2. Report of Consultation on the Metropolitan Atlanta Intrastate Air Quality Control Region, Public Health Service January 1970.

   Data on emissions from all sources used to calculate percent government contribution were obtained from this report.

3. Clean Air Act, as amended (42 U.S.C. 1857 - 1857L) Sec 107, Sec 111. November 21, 1967.

4. Executive Order 11507, Prevention, Control, and Abatement of Air and Water Pollution at Federal Facilities, February 4, 1970.

5. Title 42 - Public Health, Chapter I, Subchapter F, Part 76, June 2, 1966.

6. Bureau of the Budget Circular A-78, May 18, 1970.

7. 1970 GSA Listing of Real Property owned by the Federal Government.